

-TAUBMAN, M.D.

6

20-1-30, 44

AUTHORS:

Nikitina, S.A., Taubman, A.B.

TITLE:

The Rôle of Adsorption Kinetics in the Effects of Wetting of Dust Particles by Drops of Solutions of Surface Active Substances (O roli kinetiki adsorptsii v yavleniyakh smachivaniya chastits pyli kaplyami rastvorov poverkhnostno-aktivnykh veshchestv)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 1, pp. 113 - 116 (USSR)

ABSTRACT:

When investigating the dust adsorbing effect of the aqueous solutions of surface active substances of semicolloidal type (e.g. the wetting substances \(\subseteq \), \(\subsete \) and \(\text{OT} \)-10) the authors found considerable differences in their dust-adsorbing capacity, although these substances were of similar chemical composition and molecular structure. These differences were found also in such solutions in which a practically equal extremely reduced static surface tension (up to 30 - 35 erg/cm²) exists. The reduction of the static surface tension of the solution of surface active substances does not characterize the true properties in the case of the real conditions of dust adsorption. The dynamic value \(\sigma \) of surface tension may assume values that range nearly from the surface tension of pure water (\(\sigma \)_0) up

Card 1/3

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20-1-30,/44

The Rôle of Adsorption Kinetics in the Effects of Wetting of Dust Particles by Drops of Solutions of Surface Active Substances

to the lowest value σ . Perhaps these differences, which are due to the special properties of the solutions of the colloidal wetting agents can be explained by investigating the surface activity of these wetting agents in the case of different durations of the existence of the interface solution-air. In the solutions of \square b and the aerosol OT the kinetics of the attainment of adsorption equilirbium manifests itself comparatively quickly, and both isotherms (of dynamic and static surface tension) approach each other rapidly with increasing concentration. At a certain value they are even identical. In the case of the wetting agent OT-10 the difference between σ and σ is considerable and does not vanish (which is of essential

Of is considerable and does not vanish (which is of essential importance) in the case of larger concentrations. In the solutions of those wetting agents in which the forming of micells occurs at a certain point of approximation of the isotherms

σ_d(C?) and σ_s(C), the efficacy of the collision of the dust particles with the drops of the solutions will be greatest at kinetic conditions. The greatest effect is attained by the wetting agents Δ, 5 and OT. There are 3 figures and 8 references, 4 of which are Slavic.

Card 2/3

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20-1-30/4

The Rôle of Adsorption Kinetics in the Effects of Wetting of Dust Particles by Drops of Solutions of Surface Active Substances

ASSOCIATION: Department for Dispersive Systems of the Institute for Physical

Chemistry AN USSR

(Otdel dispersnykh sistem Instituta fizicheskoy khimii Akademii

nauk SSBR)

PRESENTED:

April 13, 1957, by P.A. Rebinder, Academician

SUBMITTED:

April 4, 1957

AVAILABLE:

Library of Congress

Card 3/3

TAUBMAN, A. B. and YANOVA, L. P.

"The Role of Gas-formation in the Disintegration of Polymers by Radiation" p. 292

Truly Transactions of the First Conference on Ralicaction Chemistry, Moscow, Izd-vo AN 885R, 1958. 330pp.
Conference -25-30 March 1957, Moscow

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SOV/81-59-16-59581

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 16, pp 556-557

AUTHORS: Taubman, A.B., Yanova, L.P.

TITLE: The Investigation of Radiation Resistance of High Polymers I. The

Effect of Radiation on the Diffusion Permeability

PERIODICAL: V sb.: Deystviye ioniziruyushchikh izlucheniy na neorgan. i organ.

sistemy. Moscow, AN SSSR, 1958, pp 307-313

ABSTRACT: The diffusion permeability (DP) in relation to HCl of polytetra-

fluoroethylene (I), polyethylene (II), polymethylmethacrylate (III), polystyrene (IV) and polyvinylchloride (V), which had been irradiated by X-rays and electrons, has been investigated. The determinations were conducted by means of measuring the leakage of the gas through a film of the polymer which separated two chambers, one of which contained a 35.5% solution of HCl in water and the other water. The quantity of HCl was determined by electric conductivity. It has been established that amorphous III and V in the glass-like state have a low DP which increases slowly in III and rapidly in V during irradiation. Such a behavior is explained by the dense

during irradiation. Such a behavior is explained by which leads packing of the molecules and the radiation instability which leads

SOV/81-59-16-59581

The Investigation of Radiation Resistance of High Polymers. I. The Effect of Radiation on the Diffusion Permeability

to the intensive liberation of gases and gives rise to the origination of microdefects in the material. IV in the glass-like state is characterized by a high DP due to the looseness of the packing. Radiation slightly affects the DP of IV. A high DP and its small variations due to irradiation are characteristic also for II. On the basis of the obtained data the coefficients of permeability and diffusion of II and V for HCl have been calculated.

Yu. Lipatov.

Card 2/2

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120008-2

66387 ...

sov/58-59-10-22522

Translation from: Referativnyy Zhurnal, Fizika, 1959, Nr 10, p 106 (USSR)

AUTHORS:

Yanova, L.P., Taubman, A.B.

TITLE:

Study of Radioresistance in High Polymers. II. On the Role of Gas

Formation During Degradation of Polymers

PERIODICAL:

In the Symposium: The Effect of Ionizing Radiation on Inorganic and

Organic Systems. Moscow, AS USSR, 1958, pp 314 - 324

ABSTRACT:

The authors investigated the role played by processes of gas formation in the mechanism of degradation of polymers (teflon, polymethyl methaorylate, and polyethylene) under the action of electron irradiation. It is shown that the intensity of the process of formation of gaseous degradation products increases with a sharp jump in the narrow temperature region where the polymers melt or effect a transition to a viscousflowing state. It is pointed out that degradation should be considered a reversible process: degradation recombination of free radicals.

The equilibrium of this process shifts toward the left upon the transition of the polymer to the flowing state. It was established that the temperature increase of the polymer sample irradiated with fast

Card 1/2

66387 80**V**/58-59-10-22522

Study of Radioresistance in Hihg Polymers. II. On the Role of Gas Formation During Degradation of Polymers

electrons can in a number of cases induce a melting of the material in the zone of maximum absorption of electron energy and thereby substantially alter the intensity of the processes of degradation and gas formation. It is shown that the character of the change in the mechanical properties of polymers and, in the final analysis, their degradation, is not directly dependent on the amount of gaseous products of decay that are being formed, but rather is determined by the ratio of the speed of this process to that of the process of liberation of gases from the irradiated sample and consequently depends on the gas permeability of the polymer. The authors discuss the mechanism of crack formation in polymers under the action of irradiation and show that this phenomenon is connected with the formation of gases and the conditions of their liberation from the material. (In-t fiz. khimii AS USSR). Part I cf. RZhFiz., 1959, Nr 8, 17756.

The authors' recume

Card 2/2

sov/58-59-8-17759

Translated from: Referativnyy Zhurnal Fizika, 1959; Nr 8, p 112 (USSR)

Kargin, V.A., Taubman, A.B., Yanova, L.P., Belyayeva, Z.F. AUTHORS:

The Effect of Ionizing Radiation on the Properties of the Copolymers of TITLE:

。 "在中华的是特别的特别,但是这些人,但是是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人

Vinyl Chloride and Vinylidene Chloride

V sb.: Deystviye ioniziruyushchikh izlucheniy na neorgan. i organ. PERIODICAL:

sistemy. Moscow, AN SSSR, 1958; pp.325-332

The effect of radiation on the gas-permeability and mechanical properties ABSTRACT:

of the copolymers of vinyl chloride and vinylidene chloride is investigated, and it is shown that the variations of these properties are closely

connected with the variation during irradiation of the mixed amorphouscrystalline state of the copolymers and their microstructure. The presence in the copolymers of a crystallizing component which heightens micro-

defectiveness, causes an augmentation of their gas-permeability in proportion to the increase in the content of this component. Irradiation also leads to an intensification of gas-permeability, but the melting of the

crystalline component which it causes and the disorganization of the

material in a certain region of small doses, can lead to the opposite Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

sov/58-59-8-17759

The Effect of Ionizing Radiation on the Properties of the Copolymers of Vinyl Chloride and Vinylidene Chloride

effect. In conformity with this, the curves of the coefficient of permeability versus the dose have two extrema: a minimum and a maximum. The disorganization of the material also shows up abruptly in the elastic properties of the copolymers: after irradiation the typical diagrams of stretching, consisting of two linear sections, the second of which is horizontal, are superseded by the S-shaped curves characteristic of amorphous materials. Full conformity is established between the character of the variations of the gas-permeability of copolymers and their mechanical properties under the influence of radiation. (In-t fiz. khimii AN SSSR).

The author's résumé

Card 2/2

AUTHORS: Taubman, A.B., Burshteyn, S.I. SOV-69-20-5-3/23

TITLE: Some Specific Features in the Adsorption of Surface-Active Substances From Non-Aqueous Solutions (O nekotorykh osobennostyakh adsorbtsii poverkhnostno-aktivnykh veshchestv v ne-

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vodnykh sredakh)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol XX, Nr 5, pp 539-545 (USSR)

ABSTRACT: In the article, various facts which permit the formulation of some important laws of adsorption from non-aqueous solu-

tions are considered. Formamide is especially useful for the investigation of the adsorption laws, because it has very pronounced polar properties (dielectric constant = 84, dipole moment =3.2) and a relatively high surface tension. In Figure 1, the surface tension isotherms of alcohols, acids, and amines dissolved in formamide are shown. It is evident that the adsorption capacity of these compounds increases sharply in homological series. In formamide, solvatation appears only on the liquid-vapor interface in the relation of the

polar groups of the dissolved molecules which effect the interaction with the solvent by means of the hydrogen bonds.

The adsorption from a non-polar hydrocarbon medium leads to the formation of adsorption layers only on the interface of

SOV-69-20-5-3/23

Some Specific Features in the Adsorption of Surface-Active Substances From Non-Aqueous Solutions

the hydrocarbon and the polar liquids. Figure 2 shows that the surface activity of molecules of diphilic structure is determined by the adsorption of the polar groups, not of the hydrocarbon chains. The influence of the chain length is negligible. The different groups may be arranged in the following series according to adsorption capacity: OH \geqslant COOH \geqslant NH $_2$ \geqslant COOR \Rightarrow J = Cl. The adsorption work, e.g. in

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the adsorption of the carboxyl group from octane, amounts to 2,500 kcal/mole. The differences in the polar properties of the solvent affect the adsorption capacity of the surface-active molecules. Figure 4 shows that at the transition from the not-easily polarizing octane and cyclohexane to the easily polarizing benzene, the adsorption capacity drops sharply. The solvatation of the hydrocarbon chains by the solvent transforms them into gases and excludes the pos-

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SOV-69-20-5-3/23

Some Specific Peatures in the Adsorption of Surface-Active Substances From Non-Aqueous Solutions

sibility of the formation of condensed adsorption layers on the interface of two liquids. There are 4 graphs, 1 table, and 12 references, 8 of which are Soviet and 4 English.

ASSOCIATION:

Institut fizicheskoy khimii AN SSSR, Otdel dispersnykh sistem (Institute of Physical Chemistry of the USSR Academy of Sciences, Department of Dispersed Systems). Odesskiy universitet im. Mechnikova (Odessa University imeni Mechnikov)

SUBMITTED:

June 2, 1958

1. Adsorbents--Analysis 2. Solutions--Properties 3. Amides --Applications

Card 3/3

AUTHORS:	Caubman, A.B., Koretskiy, A.F. SOV-69-20	-5-22/23	
TITLE:	The Role of the Mechanical Strength of the Stabilizing Layer in the Stability of Emulsions (O rcli strukturno-mekhan-icheskogo faktora v ustoychivosti emul'siy)		
PERIODICAL:	Molloidnyy zhurnal, 1958, Vol XX, Nr 5, pp 676-677 (USSR)		
ABSTRACT:	The stabilizing action of bentonite clay on emulsions of mydrocarbons in water is here investigated. Stable emulsions could be obtained only by means of one-particle layers in the presence of adsorption layers of metallic soaps. The stabilization of emulsions by hydrophobic aluminum soaps takes place in the presence of the solid colloidal phase. A chemical adsorption layer developing under these conditions prevents the emulsion droplets from co-alescing. There is 1 graph and 2 references, 1 of which is Soviet and 1 English.		
ASSOCIATION:	Institut fizicheskoy khimii AN SSSR, Otdel disper Moskva (Institute of Physical Chemistry of the U. of Sciences, Department of Dispersed Systems, Mosc	stry of the USSR Academy	
SUBMITTEDE	June 15, 1958	·	
Card 1/1	1. Metallic soapsProperties 2. ClaysPerformanc carbonsStability	e 3. Hydro-	

AUTHOR:

Taubman, A.B.

SOV-69-20-5-23/23

TITLE:

The Fourth All-Union Conference on Colloidal Chemistry (Chetvertaya vsesoyuznaya konferentsiya po kolloidnoy khimii)

PERIODICAL:

Kolloidnyy zhurnal, 1958, Vol XX, Nr 5, pp 677-679 (USSR)

ABSTRACT:

The Fourth All-Union Conference on Colloidal Chemistry took place in Tbilisi from May 12-16, 1958. Kore than 150 papers were presented. A.V. Dumanskiy read a paper on the history of colloidal-chemical investigations in the USSR. The conference heard the following reports: V.A. Kargin, V.R. Tavetkov, S.M. Lipatov, on polymers, their solutions and semi-colloids; A.I. Yurzhenko, P.M. Khomikovskiy, on the mecharism of emulsion polymerization; B.A. Dogadkin, on the production and the properties of the interpolymer of natural and butadienestyrene rubber; P.I. Zubov, on the mechanism of the formation of polymer films in gluing processes; S.S. Voyutskiy and D.M. Sandomirskiy, on colloid properties of latex systems; A.S. Kuz'minskiy and A.P. Pisarenko, on the properties of rubber and resin solutions; V.A. Pchelin, on the structural-mechanical properties of gelatine gels: N.A. Demchenko, on solubilization in soap solutions; A.V. Dumanskiy, on new methods for investigating the structures of

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. The Fourth All-Union Conference on Colloidal Chemistry SOV-69-20-5-23/23

soaps and gels; P.A. Rebinder and his school on structure formation in solidification processes of binding materials: A.A. Trapeznikov, S.S. Voyutskiy, B.Ya. Yampol'skiy, C.V. Vinogradov, on problems of rheology and structure formation in oleophilic systems; L.A. Kozarovitskiy on the mechanism of the printing process and the influence of the rheological properties of printing dyes; I.N. Vlodavets, P.A. Rebinder on the process of structure formation in food stuffs; V.I. Likhtman, G.M. Bartenev, Ye.D. Shchukin, P.A. Rebinder, on de lormation processes, the rheological conduct and the destruction of solids and metals; P.A. Tissen (GDR), on the surface dispersion of solid bodies; Linde (GDR), on the influence of surface layers on the kinetics of heterogeneous processes of diffusion exchange; M.Ye. Shishniashvili, M.P. Volarovich, N.N. Serb-Serbina, N.Ya. Denisov, Z.Ya. Berestneva, A.S. Korzhuyev, S.P. Nichiporenko, G.V. Kukoleva, F.D. Ovcharenko, I.N. Antipov-Karatayev, on structure formation in the colloidal chemistry of clays and peat; B.V. Deryagin, on the interaction of twisted metal threads in solutions of electrolytes; A.D. Sheludko, M.B. Radvinskiy, on the resistance of free films and foams; S.V. Nerpin, on the hydromechanics and thermodynamics of thin films and their influence on soil properties; S.Yu. Yelovich, on catalytic processes

Card 2/4

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SOV-69-20-5-23/23

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The Fourth All-Union Conference on Colloidal Chemistry

in foams; Yu. M. Glazman, on the first mathematical theory of ion antagonism; O.N. Grigorov, D.A. Fridrikhsberg, S.G. Teletov, on the electrokinetic properties of colloids in connection with their coagulation by electrolytes; Ye.M. Napobashvili on radiation colloidal chemistry; B.A. Dogadkin, on the chemical sorption of sulfur and rubber on carbon black; S.G. Mokrushin, on the formation of thin colloidal films, N.A. Krotova, on the influence of an electrical field on the dispersion of a liquid; E.M. Natanson, V.G. Levich, L.Ya. Kremnev, A.B. Taubman, on the resistance of emulsions and suspensions in connection with the stabilizing action of structure-mechanical properties of protective surface layers; P.S. Prokhorov, B.V. Deryagin, G.I. Izmaylova, S.S. Dukhin, on the adsorption of vapors by condensation nuclei and their influence on the formation of water aerosols; P.I. Kaishev, O.M. Todes, on the kinetics of formation and destruction of aerosols; A.B. Taubman, on the kinetic wetting in the process of collecting dust by use

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SOV-69-20-5-23/23

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The Fourth All-Union Conference on Colloidal Chemistry

of solutions of surface-active substances; A.N. Frumkin, M.M. Dubinin, B.P. Bering, V.V. Serpinskiy, V.M. Luk'ya-novich, L.V. Radushkevich, G.V. Tsitsishvili, N.F. Yermolenko, on the adsorption from vapors and liquids.

1. Chemistry--USSR 2. Colloids--Chemical properties

Card 4/4

17300MM-DC-55808

NIKITINA, S.A.; TAUENAN, A.B.

Apparatus for gauging the dust recovery properties of aqueous solutions of wetting agents. Gig. 1 san. 23 no.12:71-74 D '58. (MIRA 12:1)

1. Iz Instituta fizicheskov khimii AN SSSR.

dust recovery properties of aqueous solutions, apparator evaluation (Rus))

CIA-RDP86-00513R001755120008-2 "APPROVED FOR RELEASE: 07/16/2001 WASHINGTON TO THE PROPERTY OF THE PROPERTY OF

5(4)0 AUTHOR:

507/76-32-10-39/39

TITLE:

Petr Aleksandrovich Rebinder (Petr Aleksandrovich Rebinder)

(On His 60th Birthday Anniversery) (k 60-letiyu so dnya

rozhdeniya)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 10,

pp 2467 - 2469 (USSR)

ABSTRACT:

On October 3, a.c. P.A. Rebinder, Member, Anademy of Sciences, USSR, reached his 60th birthday. In his 35 years of activity in the field of physical and colloid chemistry together with his collaborators he introduced the concept of physical chemical mechanics. Fapers (with their titles) by P.A.Rebinder as well as the names of his collaborators in these papers are Given. Among them are the following scientists: A.B. Taubman, K.F.Zhigach, N.N.Petrova, N.H.Serb-Serbina, M.Ye.Lipeto, M.M.Rimskaya, N.H. Lubman, A.H. Frumkin, V.B. Margaritov,

Card 1/2

A.P.Pisarenko, L.A.Kozarovitskiy, Ye.K.Venstr, A.M. Smirnova, A.A. Trapeznikov, N.A. Figurovskiy, K.A. Pospelova,

Petr Aleksandrovich Rebinder (On His 60th Birthday Anniversary)

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THE STREET WELL AND THE STREET WHEN THE PROPERTY OF THE STREET

Z.W.Markina, V.I.Likhtman, G.I.Loginov , M.S.Aslanova, L.A. Shreyner, S. Ya. Veyler, G. V. Karpenko, G. I. Yepifanov, N.A. Pleteneva, Ye. Ye. Segalova, L.A. Abduragimova, N.V. Mikhaylov, I.W.Gor'kova, N.Ya.Denisov. 18 Doctors of Sciences and 50 Candidates took their degrees at the Kollektiv under the supervision of P.A.Rebinder at the Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry AS USSR) and the kafedra kolloidnoy khimii Moskovskogo gosudarstvennogo universiteta (Chair of Colloid Chemistry of Moscow State University). P.A. Rebinder together with his collaborators published 300 scientific papers and 50 monographies. Rebinder is a winner of the Stalin Prize and was awarded the Order of Lenin, the Red Order of Labour and the Order of the Patriotic War, First Class, With Medals.

Card 2/2 USCOMM-DC_60.857

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26-58-5-57/57 Taubman, A.B., Doctor of Chemical Sciences AUTHOR:

Is It Possible to Produce an Inexplosive Mixture of Hydrogen and Oxygen (Mozhno li sozdat' nevzryvayushchuyusya smes' vodoroda s TITLE: kislorodom)

Priroda, 1958, Nr 5, p 128 (USSR) PERIODICAL:

The author roughly explains the practical method of Tanaka and Nagai in 1927. He points out that the theory of the increasing ABSTRACT: stability of explosives by introducing special substances

(flegmatization) has been worked out chiefly by Soviet scien-

tists.

Library of Congress AVAILABLE:

1. Hydrogen - Oxygen - Stability Card 1/1

CIA-RDP86-00513R001755120008-2" APPROVED FOR RELEASE: 07/16/2001

POLICE DE LA CONTROL DE LA CON

20-118-5-40/59 Taubman , A. B., Yanova, L. P. AUTHORS: On Some Characteristic Features in the Radiation TITLE: Decomposition of Polymers (O nekotorykh osobennostyakh radiatsionnoy destruktsii polimerov) Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, PERIODICAL: pp. 991-993 (USSR) In the decomposition (depolymerization) caused by high-ABSTRACT: energy radiation highly supersaturated gases form, which cause high interior stresses within the material and therewith accelerate its destruction. It is difficult to determine directly the relationship between the radiation strength and the quantity of gas liberated by irradiation. This fact does not depend on the low influence of the formation of gas upon the destruction, but on the complicated character of the radiolytic processes. Some peculiar features of these processes can be observed at an simultaneous influence of radiation and increases temperature upon the polymers. Therefore the present work investigates

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

the formation of gas and its influence upon the destruction

On Some Characteristic Features in the Radiation Decomposition of Polymers 20-118-5-40/59

To his sound in a substitution of the substitu

of polytetrafluoro ethylene, polymethylmetacrylate and polyethylene by irradiating them with a beam of fast electrons at different temperatures. The samples were electrically heated within a special bulb and irradiated as well. The dosage rate of the beam produced by an accelerator amounts to E~ 2.1017 - 4.1019 eV/cm3.sec. In polytetraflueoroethylene the intensity of formation of gas in a wide temperature interval is very low; it only amounts to a few hundredth of one per cent, and even at 250°C it is does not exceed 0,5 %. However, within the range near the melting point (~ 330-350°C) the formation of gas increases to such an extent that at an equally high dosage the irradiated sample losses about half of its weight. By irradiating the sample somewhat longer it completely transforms into gaseous products. Then a short report is given on the phenomena occurring in the irradiation of the other above mentioned substances. The general character of these phenomena obviously speaks for the reversibility of radiolytic reactions, which are caused by the formation of gaseous products. The rapid liberation

Card 2/4

On Some Characteristic Features in the Radiation Decomposition of Polymers

20-118-5-40/59

of destruction products from the range of reaction displaces the equilibrium of the reversible process of recombination to the left, and theredestruction with much increases the velocity of the radiolytic processes. In the phenomena discussed here the principle of the equivalence of the effect of different dosages independent from the dosage rate is not valid any longer. The formation of ligneous fissures in the irradiation with electrons also can be explained by the reversible character of the process. By the liberation of gases a state of stress is formed within the material; the therefrom resulting fissures decrease the supersaturation of solutions and lead to the liberation of the simultaneously forming excess gas. There are 2 figures and 4 references, 3 of which are Soviet

Card 3/4

On Some Characteristic Features in the Radiation De-

20-118-5-40/59

composition of Polyners

ASSOCIATION:

Otdel dispersnykh sistem Instituta fizicheskoy khimii

Akademii nauk SSSR

(Department for Disperse Systems of the Institute for

Physical Chemistry of the AS USSR)

PRESENTED:

July 10, 1957, by V. A. Kargin, Member, Academy of

Sciences, USSR

SUBMITTED:

July 6, 1957

Card 4/4

CIA-RDP86-00513R001755120008-2" APPROVED FOR RELEASE: 07/16/2001

SOV/ 20-120-1-34/63 Taubman, A. B., Koretskiy, A. F. On the Mechanism of the Emulsifying Action of Solid Emulsifiers AUTHERS: (O mel:hanizme emulgiruyushchego deystviya tverdykh emulgatorov) TITLE: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 1, pp. 126 - 129 (USSR) PERIODICAL: First the authors mention various papers dealing with the same subject. The experiments carried out in earlier papers permit the explanation of the character of the activation of bentonite ABSTRACT: by the addition of electrolytes (FeCl3, Al2(SO4)3 etc) as well as the physical and chemical foundation of the method of the emulsification of mineral oil products by means of solid emulsifiers. The authors determined the stability of emulsions produced by a thorough mechanic shaking, as well as the structural and mechanic properties of the layers between the phases as function of the content of the solid emulsifier at a constant ratio of the volumes of the liquid phases (water: oil - 1:1). Vaseline oil and carbon tetrachloride served as experimental substances. These substances had been carefully purified. The experiments are described in short. The results of the measurements show, Card 1/3

On the Mechanism of the Emulsifying Action of Solid 30V/20-120-1-34/63 Emulsifiers

among others, the following: Stable emulsions can be obtained with pure vaseline oil only in the case of a relatively high concentration (4%) in the aqueous bentonite medium, which corresponds to the coagulation structure already formed in the entire volume. With decreasing concentration of the emulsifier the stability of the emulsion decreases rapidly so that rather thick layern cannot form any stable emulsions. The introduction of oleic acid into the oil considerably changes the conditions of emulsification as sodium oleate forms on the surface of the drops. The influence of such a change of the properties of the solid surface becomes noticeable to a different degree depending on the content of bentonite. Stable emulsions of oils can be obtained only on the following conditions: Bentonite is produced in the aqueous phase with volume-like coagulation structure only when structurized metal scaps of basic character are formed in the surface layer - and only on this condition it stabilizes the one-particle layer of the solid emulsifier. The author thanks P.A.Rebinder, Member, Academy of Sciences, USSR, for his interest in this paper as well as for his valuable contributions.

Card 2/3

On the Mechanism of the Emulsifying Action of Solid SOV/20-120-1-34/63 Emulsifiers

There are 2 figures and 7 references, 5 of which are Soviet.

是现在了中国人的国际和国际的特殊的对象。

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of ASSOCIATION:

Physical Chemistry AS USSR)

December 30, 1957, by P.A.Rebinder, Member, Academy of PRESENTED:

Sciences, USSR

December 26, 1957 SUBMITTED:

3. Metallic soaps 1. Mixtures--Properties 2. Oils--Properties

--Structural analysis

Card 3/3

TAUEMAN, A. B. and KORETSKIY, A. F.

"The Role of the Structuro-Mechanical Properties of Adsorbed Layers in the Stabilizing Action of Solid Emilsifiers."

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959.

(Koll. Zhur. v. 21, No. 4, pp. 509-511)

TRUEBAR, A. B. and NIKITINA, S. A.

"The Kinetic Factor in Adsorption and Wetting Phenomena."

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959.

(Koll. Zhur. v. 21, No. 4, pp. 509-511)

NIKITIMA, S.A., kind.khim.nauk; TAUEMAN, A.B., doktor khim.nauk; ZAKIYEVA, S.Fh., kand.khim.nauk

Physical and chemical principles of the dust-collecting action of surface active agents. Bor'ba's sil. 3:29-39 '59.

(SURFACE ACTIVE AGENTS) (DUST--REMOVAL)

5(4)

307/69-21-4-21/22

AUTHOR:

Taubman, A.B.

TITLE:

Book Review

PERIODICAL:

Kolloidnyy zhurnal, 1959, Vol XXI, Nr 4, pp 507-508 (USSR)

ABSTRACT:

This is a review of the book "Kolloidnaya khimiya (Uchebnoye posobiye dlya studentov tovarovednogo i tekhnologicheskogo fakul'tetov)" "Colloid Chemistry (Text-book for Students of the Faculties of Staple Commodities and Technology)" by A.P. Pisarenko, K.A. Forelova and A.G. Yakovlev, published by the Irstitut sov. torgovli (Institute of Soviet Trade)

in 1956 (245 pages).

Card 1/1

SOV/80-32-4-15/47 5(4) Zakiyeva, S.Kh., Taubman, A.B. AUTHORS: Investigation of the Dust Collecting Capacity of Solutions of Wetting Agents in the Dust Chamber (Issledovaniye pyleu-TITLE: lavlivayushchey sposobnosti rastvorov smachivateley v pylevoy kamere) Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 797-800 PERIODICAL: (USSR) Water is widely used in mining operations for reducing the concentration of quartz or coal dust. Special wetting ABSTRACT: to water to increase its dust collecting reagents are added capacity. The purpose of the present investigation was to test several weiting agents in a laboratory dust chamber of 1 m3 in volume. The chamber is illustrated by Figure 1 and described. A special method was developed which consisted in determining the dust collecting capacity of water and wetting agent solutions by the muddiness of suspensions which were formed by the dust collected in the process of liquid spraying. It was found that the new synthetic wetting agent PAC-Na, prepared in the Institut nefti AN SSSR Card 1/2

SOV/80-32-4-15/47

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Investigation of the Dust Collecting Capacity of Solutions of Wetting Agents in the Dust Chamber

(Petroleum Institute of the AS USSR), effectively raises the dust collecting capacity of water. The results of experiments are shown in Graphs 2 and 3 and in Table. The muidiness of the suspensions was measured by a nephelometer of the NMF-type. Acknowledgement to A.Ya. Larin is expressed for the supply of wetting agent samples.

for the supply of wetting agent samples. There are 1 diagram, 2 graphs, 1 table and 9 Soviet references.

ASSOCIATION:

Institut fizioheskoy khimii AN SSSR (Institute of Physical

Chemistry of the AS USSE)

SUBMITTED:

December 31, 1957.

Card 2/2

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SOV/20-124-2-33/71

5(4) AUTHORS: Koretskiy, A. P., Taubman, A. B.

TITLE:

On the Emulsifying Effect of Highly Dispersive Solids (Obemulgiruyushrhem deystvii vysokodispersnykh tverdykh tel)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 2, pp 358-361 (USSR)

ABSTRACT:

The stability of the emulsion was estimated on the basis of that time which is necessary for the partial destruction of the emulsion and for a separation of half of the emulsified oil in a free form. Such emulsions were considered to be stable as were not destroyed within two days. The highly dispersive particles with different dispersive nature form stable emulsions at very different concentrations of the solid phase. Infinitesimally small impurities of acid character which frequently cannot be detected at all by means of analysis (and which always exist even in purified hydrocarbon-oil) suffice for the purpose of forming a hydrophobe chemoadsorption coating on the surface of the CaCO₃-particles which reacts easily with these particles. This coating is an adsorption layer of

Card 1/3

On the Emulsifying Effect of Highly Dispersive Solids SOV/20-124-2-33/71

Ca-oil which is necessary for structural formation. The dependence of the emulsifying effect on the hydrophobe and especially introduced additions, which is shown by a diagram, confirms what has just been said. At no concentrations of oleic acid does SiO, acquire the capacity of emulsifying, but TiO, does. By the consolidation of the particles of the emulsifier which have been rendered as hydrophobic as possible, it is possible considerably to reduce the solid phase content necessary in transition from a loose multi-layer coating to a diluted but already structured protective coating. Rendering hydrophobic of the emulsifier particles exercises a similar influence also upon calcium carbonate. The high degree of stabilization necessary for the production of stable, long-duration emulsions with small quantities of solid, hydrophile emulsifiers can be attained only by considerably strengthening the natural and not sharply marked mosaic structure of the surface of the crystal lattice of the respective particles. There are 2 figures and 10 references. 7 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

On the Emulsifying Effect of Highly Dispersive Solids SOV/20-124-2-33/71

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute for

Physical Chemistry of the Academy of Sciences, USSR)

PRESENTED: August 27, 1958, by P. A. Rebinder, Academician

SUBMITTED: August 27, 1958

Card 3/3

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SOY/20-126-2-25/64 5(4) Belugina, G. V., Zakiyeva, S. Kh., Rebinder, P. A., Academician, Taubman, A. B. AUTHORS: On the Stability and Viscosity of Concentrated Suspensions in the Oleogels of Metallic Soaps TTTLE: (Ob ustoychivosti i vyazkosti kontsentrirovannykh suspenziy v oleogelyakh metallicheskikh myl) Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, PERIODICAL: pp 318-321 (USSR) In the course of the investigations discussed in the present paper the aluminum soaps of naphthenic acids were used as ABSTRACT: structure-forming additions. They form oleogels with peculiar structurally mechanical properties. These properties of oleogels depend on the molecular nature of the dispersive medium and may be regulated by variation of these factors. In this connection, the authors investigated the time--dependence of the viscosity of the gels of aluminum naphthenate in hydrocarbon media and in concentrated suspensions which are built up on the basis of such hydrocarbon media. Ordinary technical surface-hardened oxidized aluminum powder with particles of aluminum powder from 6 to 13 µ served Card 1/3

On the Stability and Viscosity of Concentrated Suspensions in the Oleogels of Metallic Soaps

SOV/20-126-2-25/64

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as dispersive phase. The dispersion medium used was the purified basic paraffin-naphthene fraction of the fuel \bar{T} - 1. The production of the aluminum scaps used for structure-formation is briefly described. A diagram shows the typical curves lgn-T for a 2% aluminum-naphthenate-gel. Here 1 denotes viscosity and T - time. The introduction of a solid phase increases initial viscosity considerably, but without changing the character of its aging. Analogous curves of aging are given for 2%- and 4%-gels of an aluminum-naphthenate of other composition. If benzene is substituted for the paraffin-naphthene fraction, the initial viscosity of the gel is reduced, but the viscosity of the gel in the suspension undergoes practically no change for the duration of one month. The decrease of viscosity in the oleogels of the aluminum-naphthenate and in the corresponding suspensions is probably a consequence of the latent formation of aggregates. There are 2 figures, 1 table, and 10 references, 9 of which are Soviet.

Card 2/3

On the Stability and Viscosity of Concentrated Suspensions in the Oleogels of Metallic Soaps

907/20-126-2-25/64

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR

(Institute for Physical Chemistry of the Academy of

Sciences, USSR)

SUBMITTED:

February 26, 1959

Card 3/3

CIA-RDP86-00513R001755120008-2" APPROVED FOR RELEASE: 07/16/2001

BERKOVICH, Malka 'Tuv' yevna; BUKHMAN, Yakov Zakharovich; TAUBMAN, A.B., prof., doktor khim.nauk, retsenzent; GERVAS' YEV, A.M., kand. tekhn.nauk, retsenzent; D'YAKOV, V.V., gornyy inzh., retsenzent; BAKIROV, U.Kh., kand.tekhn.nauk, red.; TSYMBALIST, N.N., red. izd-va; TURKINA, Ye.D., tekhn.red.

[Industrial dust] Promyshlennaia pyl'. Sverdlovsk, Gos.nauchnotekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1960. 240 p. (MIRA 13:8)

1. Institut fizicheskoy khimii AN SSSR (for Taubman). 2. Sverdlovskiy institut okhrany truda (for D'yakov). 3. Ural'skiy filial AN SSSR (for Bakirov). (Dust)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

5.5300,5.1220

779⁴1 **SOV**/65-60-3-14/19

AUTHORS:

Taubmar, A. B., Konstantinova, V. V., Kryukova, A. S.

TITLE:

Determination of the Critical Concentration of Micelle

Formation of Surface-Active Substances

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1960. Nr. 3.

pp 61-66 (USSR)

ABSTRACT:

Determination of critical concentration (C_{cr}) of

micelle formation of synthetic nonionic and anionic surfactants is carried out by titration of their aqueous

solutions with a suitable dye solution. Two dyes, pinachanin chloride and rhodamine 60 extra, were used in these experiments, as well as the several surfactants shown in Table 1. The results of experiments are shown in Table 2 and compared with those obtained by conductometric and spectrophotometric methods. The suggested method can be used for any type of surfactants, provided a suit-

Card 1/5

can be used for any type of surfactants, provided a suitable dye is chosen, and no special equipment is required. The

Determination of the Critical Concentration 77941 of Micelle Formation of Surface-Active Substances 50V/65-60-3-14/19

error of determination is ± 2%, and reproducibility is good. There are 2 tables; 2 figures; and 13 references, 10 U.S., 3 Soviet. The 5 recent U.S. references are: Gerstman, J. W., J. Phys. Chem., 61, 581 (1957); Mc Bain, M. E. L., Hutchinson E., Solubilization and Related Phenomena, New York, 29, (1955); Goddard, E. D., Jones, T. G., Res. correspond, 8, Nr 8, 41 (1955); Corrin, M. L., Harkins, W. D., J. Am. Chem. Soc., 69, 679, 683 (1947); Klevens, H. B. J. Phys. Coll. Chem., 51, 1143 (1947). Institute of Physical Chemistry of the Academy of Sciences of the USSR (Institut fizicheskoy khimii AN SSSR)

Card 2/5

ASSOCIATION:

			77941 sov,	/65-60-3-14/19
	Table 1.	Surfa	ace-active Compounds.	MOLFEWLAR WEIGHT
			$O\left(C_{3}\Pi_{4}O\right)_{n-1}C_{3}\Pi_{4}O\Pi$ $-C\left(C\Pi_{3}\right)_{3}\qquad n=6$ $C\left(C\Pi_{3}\right)_{3}$	515
		2	$O(C_{8}H_{4}O)_{n-1} C_{8}H_{4}OH n = 10$ $C_{6}H_{17}$	847
		3	C ₈ H ₁₇ OOCCH ₂ CHCOO · C ₈ H ₁₇ SO ₃ Na	444
Card 3/5		4	SO ₂ Na C ₄ H ₄ CH ₃ CH ₉ C · CH ₂ C · CH ₃ CH ₉ CH ₉ CH ₉ CH ₉	297

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	!	5	CH ₂ CH ₃ CH ₃ CH ₄ CH ₃ CH ₃ C CH ₄ C CH ₄ CH ₃ CH ₃ SO ₃ NaCH ₄ CH ₃	405	• • •
		6	CH ₃ SO ₃ Na · C ₃ H ₄ · C · (CH ₃), · CH ₃ CH ₃	333	
		7	SO ₂ Na · C ₂ H ₄ · (CH ₂) ₂ · CH · (CH ₂) ₂ · CH ₃ (CH ₃) ₂ CH ₄	333	
Card 4/5	•	8	SO ₈ NnC ₄ H ₄ · CH ₂ · CH · CH ₁ · CH · CH ₈ (CH ₄) ₄ CH ₄ CH ₃ · CH ₃ · CH ₈	345	

77941 SOV/65-60-3-14/19

Table 2. The values of C_{Cr} (moles/liter) measured by different methods.

		(1.)		
(z)	(4)	(5)	(4)	(7)
1 2 3 4 5 0 7 8	1,8 · 10 ⁻³ 4,9 · 10 ⁻⁴ 5,4 · 10 ⁻³ (2,6 · 10 ⁻³) 8,4 · 10 ⁻³ 1,0 · 10 ⁻³ 3,0 · 10 ⁻³ 1,7 · 10 ⁻³ 1,4 · 10 ⁻³	(2,6 · 10 ⁻³) 10,0 · 10 ⁻³ 1,0 · 10 ⁻³ 2 4 · 10 ⁻³ 2,7 · 10 ⁻³ 1,7 · 10 ⁻³ 1,1 · 10 ⁻³	1,4 · 10 ⁻³ 3,8 · 10 ⁻⁴ 4,5 · 10 ⁻³ (2,7 · 10 ⁻³)	5,1 · 10 ⁻³ 8,4 · 10 ⁻³ 0,0 · 10 ⁻³ 3,3 · 10 ⁻³ 1,6 · 10 ⁻³ 1,1 · 10 ⁻³

Key: (1) Surfactants; (2) colorimetric titration; (3) Pinacyanin chloride; (4) Rhodamine 6G-extra; (5) Spectrophotometry (pinacyanin chloride); (6) Electric conductivity at 40°; (7) 6 + electrolytes.

Card 5/5

TAUBMAN, A.B.; YANOVA, L.P.; MASLOVSKAYA, R.S.; GLAZUNOV, P.Ya.

Mechanism of gas formation in the radiolysis of organic compounds, and its relation to their state of aggregation. Dokl.AN SSSR 134 no.2:397-399 S 160. (MIRA 13:9)

1. Institut fizioheskoy khimii Akademii nauk SSSR. Predstavleno akademikom P.A.Rebinderom. (Gases)

8/020/60/135/005/035/043 B004/B075

AUTHORS

Taubnan, A. B. and Nikitina, S. A.

TITLE

Micell Formation in Solutions of Surface-active Substances

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 5,

pp. 1179-1182

TEXT: The authors discuss the problem 1) of the real existence of a critical concentration range of surface-active substances (SAS), in which micell formation takes place, and 2) of interpreting the critical points Cor. The change of the solution properties of SAS was investigated. Methods and results are given in Table 1: Critical concentrations of micell formation:

Card 1/4

Micell Formation on Solutions of Surface-active S/020/60/135/005/035/043 Substances B004/B075

SAS	Methods of determining Cor							
preparation:	naplelo	metric	titration with dye solution		determination of surface tension			
	(c ₀₃ ,)1	(c _{or}) ₂	(c _{or}) ₁	(cor)2	(c _{or}) ₁	(c _{cr}) ₂		
1	0.0025	0.0049	0.0026	0.0050	0.0027	0.0052		
2		-	0.014	0.031	-	-		
3		-	0.00022	0.00045	•	-		
4	0.0020	0.013	0.0024	0.012	0.0030	0.010		
5.	0.025	0.095	0.023	0.075	0.026	0.085		

The authors examined: Preparation 1: Sodium salt of diethyl idinexyl ether of sulfosuccinic acid (aerosol OT); preparation 2: Sodium salt of dihexyl ether of sulfosuccinic acid (aerosol MA); preparation 3: Sodium salt of didecyl ether of sulfosuccinic acid; preparation 4: Dodecylamino acetate (amak 1120), and 5: preparation AB(DB), a polyoxy ethylene ester of ditertiary butyl phenol. The nephelometric determination was carried out by means of an \$\Phi K-H-57 (FEK-N-57) nephelometer. In preparation 4, titration proceeded by eosin, in the others by pinacyanol chloride. For aerosol OT Fig. 1 shows the optical density D, the static surface tension \$\sigma_8\$, and \$Card 2/4

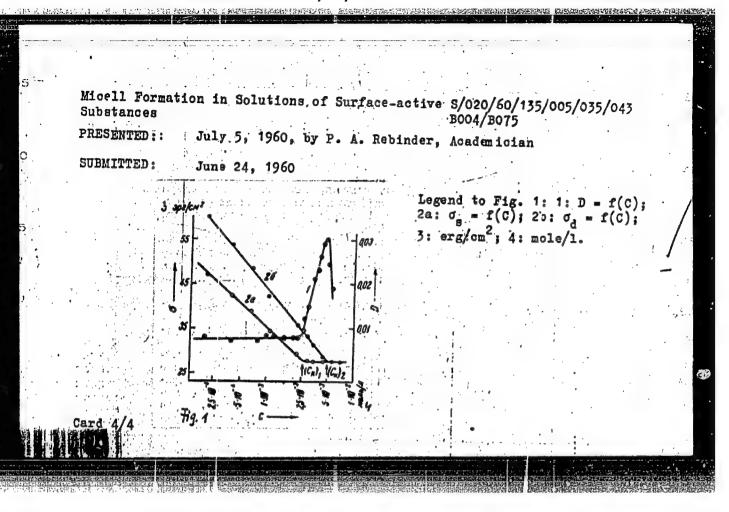
Micell Formation in Solutions of Surface-active S/020/60/135/005/035/043
Substances
B004/B075

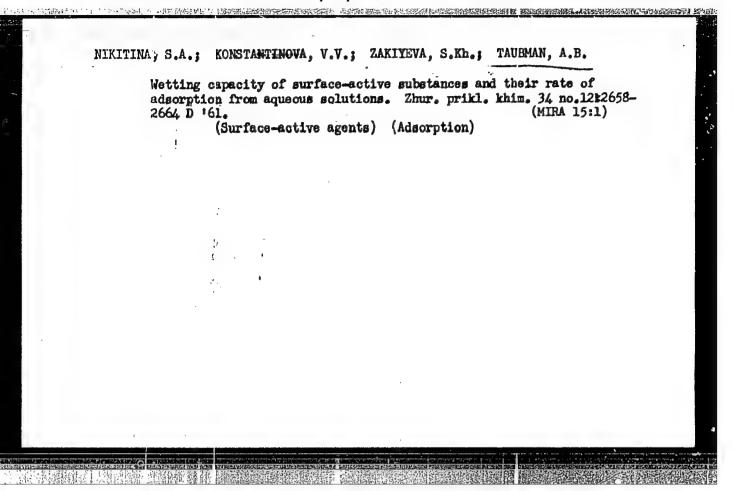
the dynamic surface tension σ_d as a function of concentration C. Two critical points were found: $(C_{cr})_1$ and $(C_{cr})_2$. The following interpretation is given: In the initial range of concentration $0 > C > (C_{cr})_1$ an adsorption layer forms, the SAS being in a molecular (ionic) state. With $C=(C_{cr})_1$ the maximum saturation of the adsorption layer and a minimum of the startic surface tension $(\sigma_s = \sigma_{min})$ are obtained. With a further increase of C the excess molecules (ions) associate to micells, until $C=(C_{cr})_2$ is attained. From these results the conclusion is drawn that the micell formation as well as absorption show the same tendency of long-chain saponaceous SAS, to decrease their free surface energy on the phase boundary. The authors thank Academician P. A. Rebinder for discussions. There are 1 figure, 1 table, and 15 references: 4 Soviet, 7 US, 3 British, and 1

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

Card 3/4





FILATOVA, M.A.; NIKITINA, S.A.; TAUBMAN, A.B.; REBINDER, P.A., akademik

Demulsifying effect of surface active agents and the structural and mechanical properties of their adsorption layers. Eokl. AN SESR 140 no.4:874-876 0 °Cl. (MIRA 14:9)

 Institut fizicheskoy khimii AN SSSR. (Surface active agents) (Emulsions)

TAURMAN, A.B.; KORETSKIY, A.F.

Dispersity and stability of emulsions stabilized by solid emulsifiers. Dokl. AN SSSR 140 no.5:1128-1131 0 '61.

(MIRA 15:2)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom P.A.Rebirderom. (Emulsions)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

3/844/62/000/000/106/129 D408/D307

AUTHORS: Taubman, A. B., Yanova, L. P., Maslovskaya, R. S. and Glazunov, P. Ya.

TITLE: Mechanisms of gas formation processes during the radiolysis of polymers and low-molecular weight compounds

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Hoscow, Izd-vo AN SSSR, 1962, 625-628

TEXT: The present work is a continuation of previous investigations by the authors. Water and n-octane were irradiated with fast electrons accelerated at 700 - 750 kv; the doses were measured by the ferrous sulfate method. For both materials the quantity of gas evolved altered very slowly, and the temperature coefficients remained practically constant, within wide intervals of temperature both above and below their melting points. Since this phenomenon was also detected in earlier work when polymers were irradiated, the authors concluded that the change in the gas formation kinetics

Card 1/2

Mechanisms of gas ...

S/844/62/000/000/106/129 D408/D307

in the phase transition region is independent of the nature of the irradiated material and depends only on the conditions under which the gaseous degradation products are formed and liberated during the radiolysis. The results confirm the authors' previous conclusion that, up to the moment when new gas phase nuclei form, the radiolysis reaction is reversible. Thermomechanical curves drawn for polybutylmethacrylate specimens which had been previously irradiated with identical doses but at different temperatures indicated that destruction of the polymer chains depends not only on the direct radiation reaction, but also on internal stresses produced in the material as a consequence of the formation and delayed liberation of the gaseous radiolysis products. In some cases the formation of increased quantities of gas at higher temperatures does not aggravate the destruction of the polymer because the increased mobility of the chains enables the internal stresses to relax. There are 3 figures.

ASSOCIATION:

Institut fizicheskoy khimii AN SSSR (Institute of

Physical Chemistry, AS USSR)

Card 2/2

S/020/62/142/002/027/029 B101/B144

AUTHORS:

Taubman. A. B., Tolstaya, S. N., Borodina, V. N., and

Mikhaylova. S. S.

TITLE:

Adsorptive modification of fillers and pigments and

structure formation in polymer solutions

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 142, no. 2, 1962, 407-410

TEXT: The change in hydrophilic properties of mineral fillers due to oriented adsorption of surfactants was investigated. The experiments were conducted: (A) with ().5% toluene solution of CKC-30 (SKS-30) rubber, filled with kaolin; (B) with 1.2% toluene solution of perchloro vinyl resin (PCVR), filled with TiO₂ (polymer-to-filler ratio = 1:80); (C) with 1.2% of dichloro ethane solution of PCVR, filled with TiO₂ (ratio 1:40). The change in static shear stress P_{Si} was measured with a Veyler-Rebinder apparatus with addition of a surfactant (octadecyl amine (I) or stearic acid (II)), and the tensile strength of SKS-30 rubber samples, filled with activated kaolin (90 parts by weight of kaolin per 100 parts by weight of rubber) and vulcanized for 60 min at 140°C and 27 kg/cm². For the ultraviolet-irradicard 1/3

S/020/62/142/002/027/029 B101/B144

Adsorptive modification of ...

ated PCVR samples, "chalking" owing to the decomposition of the film and to the emergence of T:102 to the surface was measured photometrically by S. V. Yakubovich and W. A. Zubchuk, using a method of GIPI-4. The degree of adsorption of the nurfactant by the filler was determined by photometric measurement of the methylene blue adsorption on the surface not occupied by surfactants. A maximum was found for $P_m = f(C_{surfactant})$ in all the experiments. For SKS-30 rubber filled with kaolin and activated with 2% I, P_ increased from 170 to 670 dynes/cm², while it dropped at a higher concentration of I. The maximum of tensile strength Pt lay at the same surfactant concentration which corresponds to the $P_{\mathbf{m}}$ maximum. A similar effect of I was observed with PCVR (P_m increased from 150 to 330 dynes/cm²), however, the optimum concentration of I was 0.2%. The "critical range" of occupation of the filler surface by an adsorbed surfactant, within which structuralization occurs, was very narrow. In the case of kaolin, the occupation was about 50%. In addition, the filler particles must be modified by irreversible chemosorption. II, which is reversibly adsorbed by kaolin, showed no structuralizing effect with rubber. When I and II were added simultaneously, the P in the maximum dropped from 670 to 280 dynes/cm2, its position remaining unchanged at 2% I. For amphoteric Card 2/3

Adsorptive modification of ...

S/020/62/142/002/027/029 B101/B144

TiO₂, II was also effective. The optimum lay here at 0.080% II (350 dynes/cm²). The experimental series C showed the specific effect of the solvent. In dichloro ethane, a minimum of P_m occurred at 0.2%I.

The intensity of chalking was lowest at the P_m optimum where the linkage between pigment and polymer is hightest. There are 2 figures and 9 references: 8 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: P. Rehbinder, Discuss. Farad. Soc., 18, 151 (1954).

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute

of Physical Chemistry of the Academy of Sciences USSR)

PRESENTED: August 15, 1961, by P. A. Rebinder, Academician

SUBMITTED: August 15, 1961

Card 3/3

KUZ'KIN, Sergey Pedorovich; NEBERA, Vladimir Petrovich; TAUEMAN, A.B., retsenzent; SUVOROVSKAYA, N.A., otv. red.; MAKRUSHINA, Ye.A., red.izd-va; BOLDYREVA, Z.A., tekhn. red.; LOMILINA, L.N., tekhn. red.

[Synthetic flocculants in dewatering processes] Sinteticheskie flokulianty v protsessakh obezvozhivania. Moskva, Gosgortekhizdat, 1963. 243 p. (MIRA 17:1)

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"AURMAN. A.B., doktor khimich. nauk, prof.; YANOVA, L.P., kand. khimich. nauk; GORLOVA, G.I., inzh.; MONASTYRSKAYA, M.S., kand. tekhn. nauk, dotsent; PAVLOV, S.A., doktor tekhn. nauk, prof.

Studying the effect of ionizing radiation on films made from carboxylate latex. Izv. vys. ucheb. zav.; tekh. leg. prom. no.3:12-N; '63. (MIRA 16:7)

1. Akademiya nauk SSSR (for Taubman, Yanova). 2. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti (for Gorlova, Monastyrskaya, Pavlov). Rekomendovana kafedroy tekhnologii iskusstvennoy kozhi i plenochnykh materialov Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(Rubber, Synthetic) (Ionization)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

NIKITINA, S.A.; TAUBMAN, A.B.; KULIGINA, N.V.; SPIRIDONOVA, V.A.

Structure formation in interphase adsorption layers of dissolved surface-active substances and the stability of emulsions and aqueous dispersions of polymers (latexes). Dokl. AN SSSR 149 nc.4:905-908 Ap '63.

(MIRA 16:3)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom P.A.Rebinderom.

(Surface-active agents) (Emulsions) (Adsorption)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

LEVITSKIY, L.M.; HIKITINA, S.A.; TAUEMAN, A.B.

Formation of micelles in solutions of surface-active substances and kinetic vetting. Dokl.AN SSSR 149 no.3:633-636 % '63.

(MIRA 16:4)

1. Institut fizicheskoy khimii AN SSSR. Predstavlano akademikon P.A. Rebinderom.

(Micelles)

(Surface-active agents)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

s/020/63/149/004/022/025 B106/B186

AUTHORS :

Nikitina, S. A., Taubman, L. B., Kuligina, N. V.,

Spiridonova, V. T.

TITLE:

Structuration in interphase adsorption layers of solutions of surface-active substances and stability of emulsions and

aqueous dispersions of polymers (latex)

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no -4, 1963, 905 - 908

TEXT: The values of the shear stress P_m of the adsorption layers in aqueous cN-10 (OP-10) (alkyl phenol polyhydroxyethylene ether) solutions during the period of their formation under static conditions were measured along the water = xylene interface. Furthermore, the stability of concentrated emulsions of xylene in water and polymer dispersions (polystyrene latex stabilized with OP-10 and pluronic (hydroxy ethylene and hydroxy prohylene block polyler)) was stacied. The rate of increase in strength in protective emilsifier layers increases rapidly with the concentration of OP-10 solutions. Even in 5% solutions, however, maximum strength (P = 0.25 dyn/cm) in only reached after 25 hrs. When the same amount of OP-10 was previously distributed between the two phases, high strength was Card 1/3

S/020/63/149/004/022/025 Structuration in intemphase... B106/B166

reached in the first few minutes after the interface formed. To obtain small droplets (2 - 3 to) the emulsion has to be shaken vigorously for 15 - 20 min. In a 5% solution of pluronic L64 the layer solidifies immediately even if the surface-active substance is dissolved in the aquecus phase only. The grop size is 2 - 30 also after short-time shiking.

the form of multilayer phase layers on the interface of the two liquid phases. These structures can also be seen visually. The above phenomena are caused by the hydrodynamic effect of the spontaneous surface turbulence and convection, which causes an inidirectional transition of the hydrocarbon phase into the equeous phase in the form of an ultramicroemulsion (C. Sternling, L. Scriven, Am. Inst. Chem. Eng., 6, 514 (1959)). The results obtained by using OP-10 and pluronic 164 as emulsifiers for polystyrene latex agree well with the above data. These emulsifiers as well as Nekal'-HD (Nekal'-NB) and pluronic 184 make an almost complete polymerization of the monomer possible at comparatively high concentrations, but differ considerably in their stabilizing action. Maximum stability is reached when using OP-10 or pluronic as emulsifiers under conditions such Card 2/3

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S/020/63/149/004/022/025 Structuration in interphase... B106/B186

that solid supermolecular surface structures are able to form. High strength of the structurized stabilizing layers is the principal condition for high stabilization of latex and concentrated emulsions; it is achieved when the emulsifiers are sufficiently soluble in water as well as in the non-equeous phase. There are 1 figure and 1 table. The most important and isn-language reference is: A. Kaminski, J. S. McBain, Proc. Roy. Soc., London, \$198, 447 (1949).

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry of the Academy of Sciences USSR)

PRESENTED: September 26, 1962, by P. A. Rabinder, Academician

SUBMITTED: September 12, 1962

Card .3/3

YAKHNIN, Ye.D.; TAUBMAN, A.B.

Adsorption modification of dispersed quartz, and structure formation in solutions of rubber. Dokl. AN SSSR. 152 no.2: 382-385.3 '63. (MIRA 16:11)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom P.A. Rebinderom.

TO THE THE PROPERTY OF THE PRO

Title: Deculiarities of the radialysis of polymer hylmethacrylate and polybutyimather late to the late of the radialysis of polymer hylmethacrylate and polybutyimather late to the late of the radialysis of polymer by states

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and
the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 183-188

TOPIC TAGS: polymathylmethacrylate, polybutylmethacrylate, polymer radiolysis,
polymer molecular weight, polymer strength

ABSTRACT: A study was made of gas formation during irradiation within a temperature interval encompassing both transit on polymers of uplymethylmethacrylate (PMMA)

1017 ev/g.sec. Samples are first heated in a vacuum for 6 hrs. at 1200 to remove
in addition, rupture and compression tests were made under loads of 8 kg/cm²(PMMA)

Card 1/3

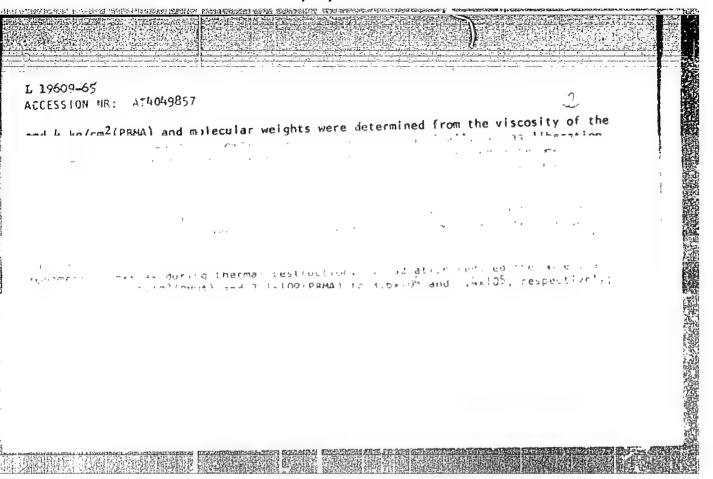


table and 5 figures.

ASSOCIATION: Institut fizicheskoy khimif AN SSSR (Institute of Physical Chemistry, AN SSSR)

SUBMITTED: 19Nov62 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 007 OTHER: 012

ACCESSION NR: APLO18011

5/0303/64/000/001/0009/0012

AUTHORS: Taubman, A. B.; Blywskosh, G. S.; Yanova, L. P.

TITLE: The structuration of carboxylated latexes

SOURCE: Lakokrasochnytye materialy*i ikh primeneniye, no. 1, 1964, 9-12

TOPIC TAGS: latex, carboxylated latex, methacrylic acid, dispersion, gel formation, structural mechanical property, viscosity, sheer stress, alkali, sodium hydroxide, ammordum hydroxide, film, paint, varnish

ABSTRACT: The effect of the pH value on the structuration of carboxylated latexes was investigated. The particular brands chosen were divinylatyrene latexes SKS-30-3 and SKS-65-1, stabilized by Nekal, which contained 23 and 34% respectively of dry matter and 3 and 1% methacrylic acid. These latexes were treated with various amounts of NaOH, KOH, and NH₁OH to bring about the desired pH range, care being taken to adjust the final volume to 1.5 of the original. The intrinsic viscosities and the ultimate sheer stress values of the dispersions were measured at various intervals, and strength tests were performed on films from the various specimens. It was found that in latex SKS-30-3 treated with KOH or NaOH

Card 1/2

ACCESSION NR: APLIO1801:1

The structure formation increased with the pH, reaching a maximum viscosity and Pm at pH 11. At this point the consistency resembled that of a rubber-like gel, which was not reversed by the addition of HCl. The structuration was a slow process, requiring 24 hours for completion. KOH proved more effective as a structurational agent than NaOH, which in turn was more effective than NH₁OH. Under similar conditions, in latex SKS-65-1 the NaOH gelation reached a maximum within 5-6 hours, rendering further viscosity determinations impossible, and here ammonia proved ineffective. Strength tests conducted on films obtained from the specimens at various stages of structuration provided values which parallelled those of viscosity and sheer stress. Thanks are given to A. B. Peyzner for the synthesis of the latexes. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 009

OTHER: OOL

Card 2/2

GORLOVA, G.I.; MCNASTYRSKAYA, M.S.; TAUHMAN, A.B.; YANOVA, L.P.

Filled films made from carboxylate latex. Kauch. i rez. 23
no.447.-9 Ap*64 (NIRA 17:7)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

8/0069/64/026/001/0126/0132

ACCESSION NR: AP4011313

AUTHORS: Yakhnin, Ye. D.; Taubman, A. B.

TITLE: Adsorption modification of quartz in connection with the

structurizing effect of fillers in polymer systems.

SOURCE: Kolloidny*y zhurnal, v. 26, no. 1, 1964, 126-132

TOPIC TAGS: quartz, rubber filler, surface active modified quartz, adsorption modified quartz, filler, quartz suspension, reinforcing capacity

ABSTRACT: The isotherms of adsorption of surface active compounds (octylamine and octadecylamine) from xylene onto quartz were constructed. The relation between the degree of adsorption modification of the disperse quartz and the structuration of its suspensions in xylene and xylene solutions of SKS-30 rubber was investigated. Binding of the amines by quartz from the xylene solutions proceeds in two consecutive stages: first by irreversible chemical adsorption, and then by reversable physical adsorption. The maximum strength occurs in these systems when there is incomplete coverage and chemical

1/2 Card

binding of the modifier on the filler surface. This explains the appearance of the lyophobic-lyophilic adsorptive macromosaic pattern on the solid phase surface. The reinforcing capacity of fillers in actual polymeric materials may be estimated from model systems.

Orig. art. has: 5 Figures.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR, Moskva (Institute of Physical Chemistry AN SSSR)

SUEMITTED: O2Jul63 DATE ACQ: 14Feb64 ENGL: OC

SUB CODE: MA, PH NR REF SOV: CO6 OTHER: CO2

TAUBMAN, A.P.; YAKHNIN, Ye.D.

Incomplete thixotropy of condensation-coagulation structures arising in finely divided quartz dispersions. Koll. zhur. 26 no.5:653-654 S-0 164. (MIRA 17:10)

1. Institut fizicheskey khimii AN SSSR, Moskva.

ACCESSION NR: AP4047948

S/0020/64/158/005/1155/1158

AUTHOR: Maslovskiva, R. S.: Taubman A. B. Yanova I. P.

TITLE: Diffusion permeability of polymers upon radiative destruction in different physical states

SOURCE: AN SSSR. Doklady*, v. 158, no. 5, 1964, 1155-1158

TOPIC TAGS: diffusion permeability. irradiated polymer. irradiated polymethyled of polymethylmethacrylated PMMA) and polyhutylmethacrylate (PBMA) irradiated polymethylmethacrylated (PBMA) irradiated polymethylmethacrylated (PBMA) irradiated with U. S. introduction in different physical states

SOURCE: AN SSSR. Doklady*, v. 158, no. 5, 1964, 1155-1158

TOPIC TAGS: diffusion permeability. irradiated polymer. irradiated polymethylmethylmethacrylated polymethylmet

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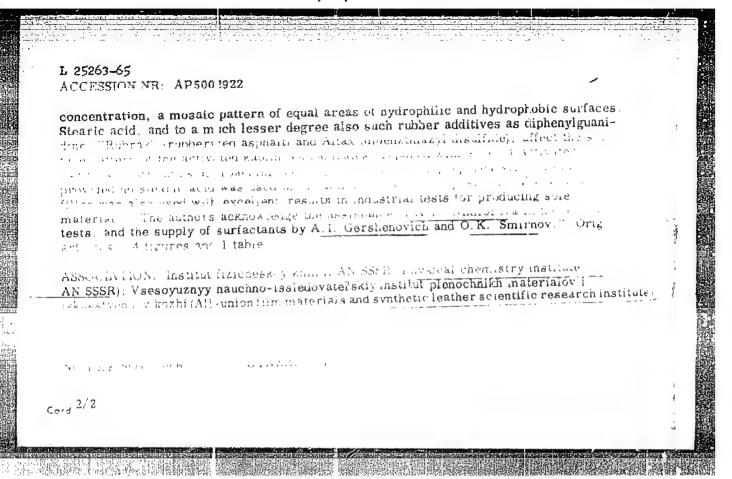
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ACCESSION NR: AP4047948

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physica) Chemistry Academy of Sciences SSSR)

SUBMITTED 25Apr84 ENCI. 99 SUB CODE OC

NO REF SOV: 009 OTHER: 007

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AUTHOR:	Numina, S.A.; Spiridonova	i, V.A.; Tarbman, A.B.
TITLE: St	abilization of polyvinylaceta	ate latexes by nonionogenic emulsifiers
SOURCE:	Lakokrasochnyre materialy	i ikh primeneniye, no. 1, 1965, 20-23
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ACCESSION NR: AP5007141

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ASSOCIATION: none

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NO REF SOV: 011 OTHER: 006

[Card 2/2

TAUBMAN, A.B.; NIKITINA, S.A.; PRIGORODOV, V.N.

Role of quasi-spontaneous emulsification in the process of stabilization of emulsions. Koll. zhur. 27 no.2:291-292 (MIRA 18:6)

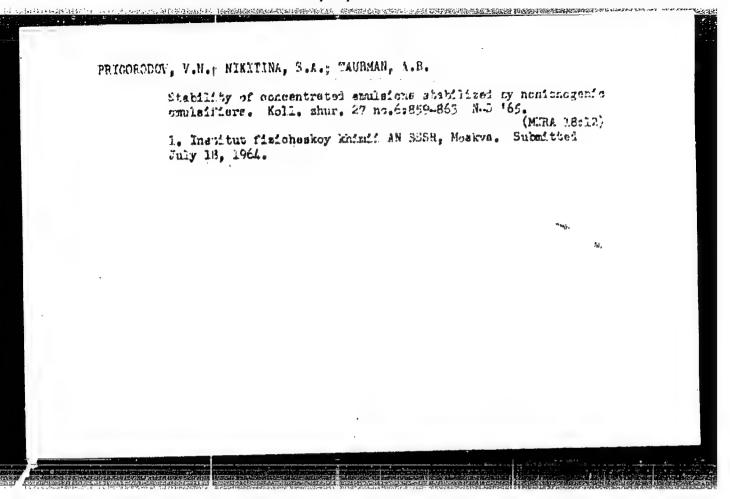
1. Institut fizicheskoy khimii AN SSSR, Moskva.

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ACCESSION NR: AF5014530			Z	·
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"Course in colloid no.7:1800-1801 J1	chemistry ⁿ	by S.S.Voiutskii.	Zhur.fiz.khim. 39 (MIRA 18:8)
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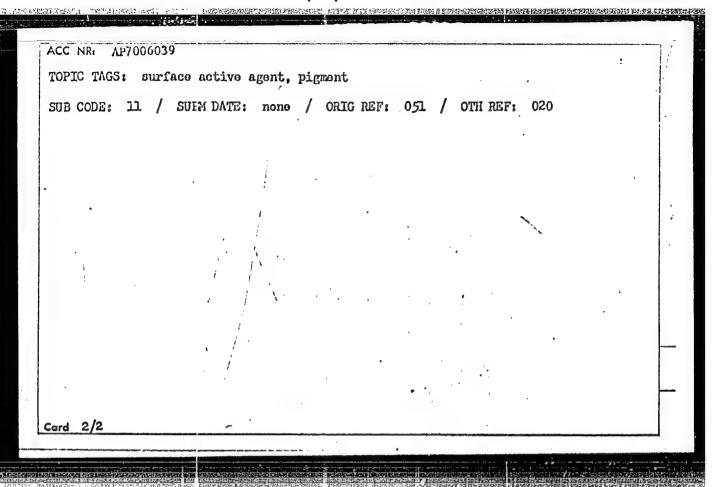
TOISTAYA, S.N.; BORODINA. V.N.; TAURMAN, A.B.

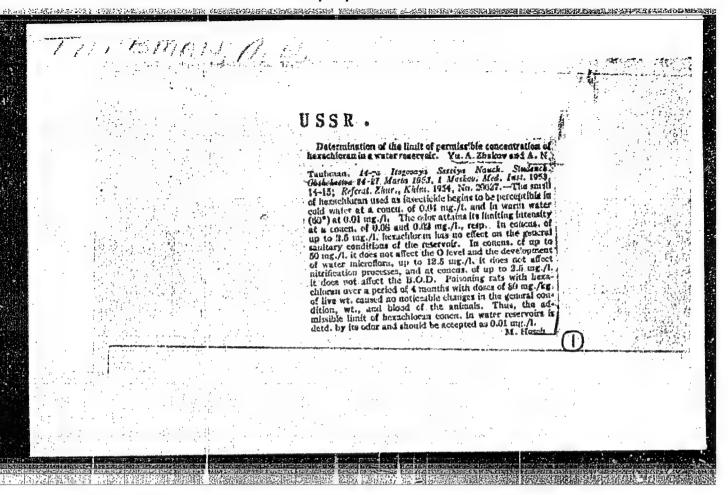
Adsorption activation and the reinforcing action of mineral fillers in polymer systems. Koll.zhur. 27 no.3:446-452 My-Je 165. (MIRA 18:12)

1. Institut fizicheskoy khimii AN SSSR, Moskva. Submitted Sept. 12, 1963.

EHI (m) / EHP(j) ACC NR: AP6019446 SOURCE CODE: UR/0303/66/000/003/0010/0013 AUTHOR: Taubman, A. B.; Blyskosh, G. S.; Yanova, L. P. ORG: none TITLE: Mechanical and chemical modification of the surface of pigments and fillers by grafting of polymers 15 SOURCE: Lakokrasochnyyematerialy i ikh primeneniye, no. 3, 1966, 10-13 TOPIC TAGS: graft polymer, calcium carbonate, polystyrene, styrene, barium sulfate grafting, polymerization, PIRMENT, FILLER, CHEMICAL DISPERSION, MONOMER, POLYMER
ABSTRACT: A study has been made of the mechanical and chemical grafting of polystyrenelsto the surface of calcium carbonate, ferric oxide, and barium sulfate by dispersing them in a vibratory mill in aqueous styrene emulsions. It has been shown that the grafting effect is increased by the presence of small amounts of water in styrene; the rate of conversion of the monomer into a polymer in styrene emulsions and in anhydrous styrene is about the same. It has been established that the activating effect of water is related to ist facilitating the process of dispersion, which leads to an intensified growth of the activated surface. A study of the strength properties of filled varnish films has shown that the grafting of polystyrene, while modifying the surface of the pigment, renders it hydrophobic thus improving the quality of the films. Orig. art. has: 6 figures and 1 table. SUB CODE: 07,11/ SUBM DATE: none/ ORIG REF: 010/ OTH REF: 001 Card

SOURCE CODE: UR/0063/66/011/004/0387/0391 AP7006039 TAUBMAN, A. B., Doctor of Chemical Sciences, NIKITINA, S. A., Candidate of Chemical Sciences, and TOISTAYA, S. N., Candidate of Chemical Sciences ORG! none "Surface-active Agents in the Physical Chemistry and Technology of Polymers" Moscow, Zhurnal Vassoyuznogo Khimicheskogo Obshchestva, Vol 11, No 4, 1966. pp 387-391 Abstract: With the exception of carbon black -- a highly hydrophobic and highly dispersed and therefore effective polymer filler, most other mineral fillers, including pigments, are hydrophilic and of low activity. The oriented adsorption of surface-active agents (SAA) on particle surfaces, lyophilizing it with respect to the polymeric medium (the polymer or its solution in an organic solvent), peptizes the filler, intensifies the molecular interaction on the particle-medium interface, and alters the strength properties arising in the filling of coagulational structures. This kind of modification with the purpose of facilitating the distribution of filler particles in the polymer (rubbers), improving the wear of pigments, and increasing the stability of paints is carried out with the aid of longchain amines, fatty acids, their salts, and many other SAA. The high emulsifying capacity of long-chain SAA homologs -- the soaps of natural fatty acids and synthetic soaplike compounds -- affords their extensive utilization. in the polymerization of latexes. For this purpose, anion-active and non-ionogenic scaps are chiefly used. Orig. art. has: 1 figure. [JPRS: 38,970] Card 1/2 UDC: 661.185.1 + 541.6





Formation of micelles in solutions of surface active agents.
Dokl. AN SSSR 135 no.5:1179-1182 D '60. (MIRA 19:12)

1. Institut fizicheskoy AN SSSR. Predstavleno akademikom P.A.
Reginderom. (Surface active agents)

TAUBMAN, S. I.

USSR/Mathematics - Bibliography Mar/Apr 1948

"Mathematical Literature Published in 1946 and 1947,"
S. I. Taubman, 4 pp

"Uspekhi Matemat Nauk" Vol III, No 2 (24)

A list of titles of books on mathematics published in USSR, in 1946 and 1947 with numbers and prices.

FDB

69764

PISARENKO, Aleksandr Pavlovich, prof.; POSPELOVA, Kseniya Aleksandrovna, dots.; YAKOVLEV, Aleksandr Georgiyevich, dots.; VOYUTSKIY, S.S., prof., retsenzent; NAZAROV, V.I., prof., retsenzent; TAUEMAN, S.S., prof., retsenzent; BARAMBOYM, N.K., prof., retsenzent; STUKOVNIN, I.D., red. izd-va; YEZHOVA, L.L., tekhn. red.

[Course in colloid chemistry] Kurs kolloidnoi khimii. Moskva, Gos.izd-70 "Vysshaia shkola," 1961. 241 p. (MIRA 14:12) (Colloids)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

REMENNY, L., insh.; TAUBMAE, Ys., inzh.

Automation of grain drying processes in the VII-15 grain dryer.

Muk.-elev.prom. 25 no.?:6-7 Jl '59. (MIRA 12:11)

1. Odesskiy proyektno-konstruktorskiy institut Pishcheprom.

(Grain--Drying)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120008-2"

THUBAIAN, YE. AUTHOR: Taubman, Ye.I., Engineer 91-58-7-8/27 Exchange of Experience (Obmen opytom). The Choice of Im-TITLE: pulse for the Load Controller of a Drum Ball Mill (Vybor impul'sa k regulyatoru zagruzki sharovoy barabannoy mel'mitsy). Energetik, 1958, Nr 7, pp 21-22 (USSR) PERIODICAL: ABSTRACT: The article explains the basic diagram of a double impulse load controller commonly used either with TsKTI electromechanical or VTI electronic automation. The author distinguishes two types of mills: with and without clear acceleration characteristics. Figure 2 shows the measuring spots and acceleration characteristics for mills of "Garding" type taken at the "Novosibirskenergo" electric power plant. The correct choice of the hydraulic resistance as impulse can improve the quality of load con-Card 1/2 trol. On the basis of research made with the "Sh-10" type